



All dimensions are in mm. Tolerances acc. to ISO 2768 m-H

Interface

According to IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

Panel piercing B 13

Material and plating

Connector parts

- Center contact jack side
- Center contact plug side
- Outer contact
- Body
- Dielectric
- Gasket
- Gasket

Material

- Beryllium copper
- Brass
- Brass
- Brass
- PTFE
- Silicone
- NBR

Plating

- Silver, 3-6 µm
- Silver, 3-6 µm
- Flash white bronze over silver(e.g. Optargen®)
- Flash white bronze over silver(e.g. Optargen®)

N 50 Ω SURGE ARRESTER
JACK - PLUG

53HK502-S00N1

Electrical data

Impedance	50 Ω
Frequency	2300 to 5850 MHz
Return loss	≥ 25 dB, 2300 MHz to 2500 MHz ≥ 22 dB, 2500 MHz to 5700 MHz ≥ 25 dB, 5700 MHz to 5850 MHz
Insertion loss	≤ 0.1 dB
Insulation resistance	≥ 5 x10 ³ MΩ
Center contact resistance	≤ 1 mΩ
Outer contact resistance	≤ 0.25 mΩ
Power handling (at 20 °C, sea level, VSWR 1.0)	1000 W @ 1 GHz 700 W @ 2 GHz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3 rd order)	≤ -117 dBm @ 2 x 20 W
Nominal impulse discharge current:	50 kA, Wave 8/20 μS

Mechanical data

Mating cycles	min. 500
Coupling nut retention	≥ 450 N
Center contact captivation: axial	≥ 28 N
radial	≥ 3 Ncm
Coupling test torque	max. 1.7 Nm
Recommended torque	0.7 Nm to 1.1 Nm

Environmental data

Temperature range	-45°C to +85°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
Degree of protection (mated pair)	IEC 60529, IP68 2.5 bar
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 130 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Gramsamer Sepp	01.09.05	Sa. Krautenbacher	18.03.14	200	14-0352	T. Krojer	18.03.14
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